

LESSON PLAN

Topic: Spinal Cord Injury

KERA Goals	Goal 1
Accessing Sources of Info	*
Reading	*
Observing	*
Listening	*
Quantifying	
Computing	
Visualizing	*
Measuring	
Mathematical Reasoning	
Classifying	
Writing	
Speaking	
Visual Arts	
Music	
Movement	
Using Electronic Tech.	
	Goal 2
Nature of Scientific Activity	
Patterns	*
Systems and Interactions	*
Models and Scale	
Constancy	
Evolutionary Change	
Number	
Mathematical Procedures	
Space and Dimensionality	
Measurement	
Change	
Mathematical Structure	
Date	*
Democratic Principles	
Political System	
Social Systems	
Cultural Diversity	
Economic Systems	*
Geography&Human Activity	
Historical Perspective	

Background: Spinal cord injuries are some of the most severe injuries in agricultural occupations. The results can range from minor nerve damage to paralysis.

Objective: For the student to recognize the sources of spinal cord injury on the farm and to be able to perform the following tasks:

- Name the long-term physical consequences of a spinal cord injury.
- Name ways spinal cord injuries can affect both the injured and others.
- Identify specific ways to prevent spinal cord injuries when performing farm jobs.
- Name safety equipment, innovations, and technology that can help prevent spinal cord injury to workers and others on the farm.

Situation Development: Things to be brought out by the instructor in discussion to generate interest in the lesson: (See fact sheet.)

- Ask students about farm incidents in which spinal injury occurred, and they or someone they knew were involved. Allow for examples of different types of injuries, such as falling from ladders or barns, tractor rollovers, ATV rollovers or crashes, etc.
- Ask students what may cause spinal injury on the farm.

Problem Statement: Identify the lesson topic and what the students will be answering in their activities.

- What are the causes of spinal cord injuries in agricultural occupations, and how can we prevent these injuries?

	Interpersonal Relationships	
	Production	
	Analysis of Forms	
	Aesthetics	
	Cultural Heritage	
	Cultural diversity	
	Language	
	Second Language	
	Family Life/Parenting	*
	Consumerism	*
	Physical Wellness	*
	Mental/Emotional Wellness	
	Community Health Systems	
	Psychomotor Skills	
	Lifetime Physical Activities	
	Career Paths	
	Employability Attributes	*
	Post-Secondary Options	
		Goal 3
	Positive Self-concept	
	Healthy Lifestyle	*
	Adaptability/Flexibility	
	Resourcefulness/Creativity	
	Self-control/Self-discipline	*
	Ethical Values	
	Independent Learning	*
		Goal 4
	Interpersonal Skills	*
	Team Membership	*
	Consistent, Caring Behavior	
	Rights & Responsibilities	*
	Multicultural/World View	
	Open Mind	
		Goal 5
	Critical Thinking	*
	Creative Thinking	
	Conceptualizing	
	Decision Making	*
	Problem Solving	*
		Goal 6
	Multiple Perspectives	*
	Developing New Knowledge	
	Expanding Knowledge	*

Analysis: Things to consider in analyzing the topic and reaching the conclusion:

- Evaluate the sources and reasons for incidents that lead to spinal injury.
- Identify the effects of spinal cord injury.
- Identify ways to prevent spinal cord injury in agriculture.
- Identify safety equipment and practices.

Directed Study: Listed below are activities that will present the concepts of spinal cord injury and its prevention. Choose the activities that best fit your time restraints, student abilities, and resource availability. Student reference sheets are enclosed, which give information about spinal cord injury. Duplicate these fact sheets, and use as a reference tool when conducting the activities.

- Narrative Simulation
- Physical Simulation
- Supplemental Activities:
Study Sheet
Guest Speaker
Group Activity

Conclusion: After completing the activities, the teacher will lead in discussion of the topic with the class, approaching the points outlined in the analysis. The students should provide information and knowledge as gained from the activities and reference materials.